

The invention claimed is:

1. A method at a base station in a code division multiple access wireless network that transmits data bursts on a high-speed forward channel, the method comprising the steps of:

- 5 providing at least one permanent virtual pipe on the high-speed forward channel for transmission of the data bursts;
- scheduling transmission of burst segments of the data bursts on the at least one permanent virtual pipe in a round-robin manner among different data bursts; and
- 10 transmitting the burst segments on the at least one virtual pipe in accordance with the scheduling.

2. The method of claim 1 wherein the step of providing at least one permanent virtual pipe comprises provisioning predetermined channel resources to the at least one virtual pipe.

- 15 3. The method of claim 2 wherein the predetermined channel resources comprises a predetermined number of contiguous Walsh codes and a predetermined amount of contiguous real estate on the base station's CDMA ASIC.

4. The method of claim 1 wherein the at least one permanent virtual
- 20 pipe comprises a plurality of different width virtual pipes, at least one of the plurality of virtual pipes being wider than another of the virtual pipes, at least one burst segment of each data burst being scheduled for transmission on the widest virtual pipe.

5. The method of claim 4 further comprising:

scheduling transmission of the burst segments of a data burst amongst the different width virtual pipes in a round robin manner.

6. The method of claim 4 wherein the base station operates in accordance with CDMA2000 standards and the virtual pipes are provided at
5 widths chosen from among: 19.2 kbps, 38.4 kbps, 76.8 kbps and 153.6 kbps.

7. The method of claim 1 further comprising the step of:
transmitting an ESCAM a predetermined time interval before
transmitting a burst segment, the ESCAM providing information for receiving
the burst segment.

10 8. A base station in a code division multiple access wireless network that transmits data bursts to mobile terminals on a high-speed forward channel, the base station comprising:

means for providing at least one permanent virtual pipe on the high-speed forward channel;

15 scheduling means for scheduling transmission of burst segments of the data bursts on the at least one permanent virtual pipe in a round-robin manner among different data bursts; and

means for transmitting each burst segment on the at least one virtual pipe in accordance with when it is scheduled for transmission.

20 9. The base station in accordance with claim 8 further comprising a burst segment control means associated with the at least one permanent virtual pipe for storing when each burst segment is scheduled for transmission, the transmitting means transmitting a burst segment in

response to a signal from said burst segment control means to transmit the burst when it is scheduled.

10. The base station of claim 8 wherein the means for providing at least one permanent virtual pipe comprises a provision of predetermined
5 channel resources to the at least one virtual pipe.

11. The base station of claim 10 wherein the predetermined channel resources comprises a predetermined number of contiguous Walsh codes and a predetermined amount of contiguous real estate on a CDMA ASIC.

12. The base station of claim 8 wherein the at least one permanent
10 virtual pipe comprises a plurality of different width virtual pipes, at least one of the plurality of virtual pipes being wider than another of the virtual pipes, at least one burst segment of each data burst being scheduled for transmission on the widest virtual pipe.

13. The base station of claim 12 wherein the scheduling means
15 schedules transmission of the burst segments of a data burst amongst the different width virtual pipes in a round robin manner.

14. The base station of claim 12 wherein the base station operates in accordance with CDMA2000 standards and the virtual pipes are provided at widths chosen from among: 19.2 kbps, 38.4 kbps, 76.8 kbps and 153.6 kbps.

20 15. The base station of claim 8 wherein the transmitting means transmits an ESCAM a predetermined time interval before transmitting a burst segment, the ESCAM providing information for receiving the burst segment.